AREA WEIGHTED AVERAGE CALCULATION WORKSHEET

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NIA ENERGY COMMISSION	140

CEC-CF1R-ENV-02-E (Revised 06/14)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	CF1R-ENV-02-E
Area Weighted Average Calculation Worksheet	(Page 1 of 1)
Project Name:	Date Prepared:

A. Area-Weighted Average Calculation			
01	Project Name:		
02	Dwelling Name or Number:		
03	Feature Being Area Weighted Averaged		
04	Property Being Averaged:		

B. U-factor Area-Weighted Average Calculation				
01	02	03		
Tag /Identification	Surface Feature Area (ft ²)	U-Factor Value		
		. 0		
04 U-Factor Area-weighted Average	:	2/0		

				0. 7 0.
C. SHO	GC Area-Weighted Average Calculation			
	01	02		03
	Tag /Identification	Surface Feature Area (ft ²)		SHGC Value
				110
04	SHGC Area-weighted Average:	*'0	.0	
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Registration Number: Registration Date/Time: HERS Provider:

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	CF1R-ENV-02-E
Area Weighted Average Calculation Worksheet	(Page 1 of 1)

This worksheet is used to calculate the area-weighted average U-factors for building envelope features such as walls, roofs, floors, mass, and fenestration/glazing U-factors or Solar Heat Gain Coefficient (SHGC) values for prescriptive compliance. R-values are not used for area-weighing; only U-factors or SHGC values are allowed.

The area weighted averaging calculation is done when there is more than one level of insulation, window U-factor or SHGC used in a building to meet prescriptive compliance requirements. Each fenestration type (e.g., vertical windows, skylights, dynamic glazing, and window films) is treated independently and cannot be combined. Submit the ENV-02 with the energy compliance forms.

If exterior shading devices are used to meet an SHGC requirement, first complete a CF1R-ENV-03 form (Solar Heat Gain Coefficient (SHGC) Worksheet). If the SHGC exceeds 0.25, then use the weighted-average of other like windows to determine overall compliance with prescriptive SHGC requirements.

A. Area Weighted Average - General Information

- 1. Project name: From the CF1R
- 2. Dwelling name or number: From the CF1R
- 3. Feature being area-weighted averaged: Indicate what is being area weighted is Fenestration, Wall, Roof, Ceiling or Floors.
- 4. Property being averaged: Indicate if the area-weighted average is for a U-factor, SHGC or Both.

B. U-factor Area Weighted Average Calculation

- 1. Tag/ID: same data given on CF1R's; provides an identification Tag or Identification name that uniquely identifies the features being area-weighted.
- 2. Surface Feature Area: Total area of each occurrence of the feature being area-weighted.
- 3. U-Factor Value: U-factor of the area described in this row. Values can come from the 2013 Reference Appendices, manufacturer's data or specification sheets.
- 4. Calculated value; not a user input.

C. SHGC Area Weighted Average Calculation

- 1. Tag/ID: same data given on CF1R's; provides an identification Tag or Identification name that uniquely identifies the features being area-weighted.
- 2. Surface Feature Area: Total area of each fenestration being area-weighted.
- 3. Property being averaged: Value: SHGC of the area being described in this row. Values can come from the 2013 Reference Appendices, manufacturers data or specification sheet.
- 4. Calculated value; not a user input.